

The effect of medication and ingredients of PFCO-1

- The main ingredients of PFCO-1 for Perfluoro and Ozone to be mixed, the molecular formula to part of the C6F14 and O3.
- Due to the characteristics of Ozone was very unsettled and a characteristic of difficult to store, we are to Point out clinic and hospital who should be to buy our PFCO–Pharmacy-Machines to make up by oneself for clinical to put in use immediately and to enhance the effect of medication, also it could to be frugal the cost.
- As there is a need to define air as an interface, so SARS infection include flu of any type or pulmonary which they were alike property the ulcer of superficiality and bacterial infection, this is a new medical definition and as well as is our basis of patent invent, the revolutionize of lung treatment history that already to start, if you no to identify oneself with it be bound to fall behind!
- The Ozone is a benignancy bactericide it was acknowledged in the world, it could be to destroyed or decomposed a cell wall of germs to oxidize the internal of a cell and to cause death the original body of a cell, however, the PFC is a excellent polymerization liquid of macromolecule and it has zero ozone depletion, the collocation it was a seamless heavenly robe.
- The clinical concentration to consult list below:

Ozone sterilizing in liquid (1ppm= 1mg / L)			
O3 Density	Time	Types of viruses and pathogens	Sterilizing efficiency
10mg/m3	20 mins	Type-B hepatitis surface antigen (HbsAg)	99.99%
0.5 ppm	5 mins	Type-A flu virus	99%
0.13 ppm	30 seconds	Poliomyelitis virus type I (PVI)	100%
0.040 ppm	20 seconds	Coliphage ms2	98%
0.25 ppm	1 mins	SA-H and human-wheel virus type 2	99.60%
* 12.6 ppm	4 mins	Coronaviridae	100%
4 ppm	3 mins	HIV	100%
8mg/m3	10 mins	Mycoplasma, Chlamydia, and other pathogens	99.85%

- This medicine substance to suit with registered doctor to put in use clinical for enter lung to cure SARS, bird flu and flu of anyone germs infect; it was unusual for preserved children of tender age whom they are in virtue of head cold to bring about a high fever to surmount 39° C which was easy to lead to pathological changes to die or the intelligence to descend , this medicine substance could be to bring down a fever immediately and it could be to evaporate and not any vestiges.
- The phthisis was same a type of germs infect of lung, this medicine substance has a specific remedy only.
- This medicine substance could be to washing lung of smoker and pneumoconiosis of aged people, because the single oxygen atom it could be to produced intense oxygenation for the deposit-stain to decomposed.

PFCO-1 a matter needing attention of using medication

The Perfluoro liquid of medicine substance it was to choose the PF-5080 electronic liquid of 3M company of USA with to mix Ozone to manufacture, the liquid was to guaranteed that it is non-irritating to the eyes and skin, and is practically non-toxic orally. The 3M company was further to guaranteed the product also demonstrates very low acute and sub chronic inhalation toxicity and the liquid it has zero ozone depletion potential.

Because the Ozone is not chemical reaction for the macromolecule liquid of PFC, so above the distinguishing characteristic of the PFCO-1 liquid that is not to changed; but the characteristics of Ozone was very unsettled, so there is to take apart the glue bag of air-tight wrapping as soon as, the mark concentration of Ozone it could be to descend, the numerical analysis of ppm which was on behalf of the lethality for germs, the PFCO-1 liquid has a characteristic of fine to evaporated it was especially in the body temperature, as well as it must to regulate the concentration of Ozone in the liquid with it could be to once to kill the germs of lung-cavity and to request clinicians who must to look out.

Although in proportion to the concentration of oxygen it may be upward 15-30ppm or above-mentioned, the PFCO–Pharmacy-Machines could be to adjust the oxygen concentration to reach to surmount the evaporate period which breathe capacity of liquid medicine, even if is this, our proposal is that the lungs be used interchangeably during clinical trial phase while the other lungs can still supply oxygen. This is to ensure safety.

To use the mark concentration of Ozone is 10ppm or still more for an allergic reaction and volatility test are our advice, it's volatility is about three times over for alcohol. Those are to have the PFCO–Pharmacy-Machines's clinic and hospital will be to have abundant clinical experience quickly.

This medicine substance it was to belong to a “ lung-cavity an appetite fluid” and it was to originate in medicine history and inconvenient used for the public, so it does not to go on sale, it only to supply for those have the patent authorized and who must were the register doctor, clinic or hospital use the prescription authority for clinical.

PFCO-1 藥物成份及藥力簡介

- 本藥物主要成分為PFC全氟液體(Perfluoro)游離臭氧混合而成，分子式分別為C6F14及O3。
- 由於臭氧的高度不穩定性及困難貯存的特性，我們指出診所或醫院購買PFCO-1製藥機是必須的，自行配製并即配即用提高用藥精度外，並可節省成本。
- 以空氣 介面定義，非典病毒感染(SARS)包括任何一種流感或肺結核都同屬表面性、細菌感染性潰瘍，這是一個創新的醫學定義，也是我們的專利發明基礎，肺臟醫療史的革命已經開始，你不認同采用必然就會落伍！
- 臭氧早就是世界公認的良性殺菌劑，它能破壞或分解細菌的細胞壁，氧化細胞 疊，致死細菌原體，然而PFC是一種優良的高分子聚合液體不為臭氧降解，搭配天衣無縫！
- 用藥濃度參考表：

臭 氧 消 毒 液 體 (1ppm= 1mg / L)			
投加濃度	投加時間	病毒、病原體種類	殺滅效率
10mg/m ³	20 分鐘	乙型肝炎表面抗原 (HbsAg)	99.99%
* 0.5 ppm	5 分鐘	甲型流感病毒	99%
0.13 ppm	30 秒	脊髓灰質炎病毒 I 型 (PVI)	100%
0.040 ppm	20 秒	大腸桿菌噬菌體 ms2	98%
0.25 ppm	1 分鐘	猿輪狀病毒 SA-H 和人輪狀病毒 2 型	99.60%
* 12.6 ppm	4 分鐘	冠狀病毒 (Coronaviridae)	100%
4 ppm	3 分鐘	艾滋病毒(HIV)	100%
8mg/m ³	10 分鐘	支原體(Mycoplasma)、衣原體(Chlamydia)等病原體	99.85%

- 本藥物物質適合註冊醫生臨床應用進入肺部殺滅SARS、禽流感及任何一種細菌性感染的感冒，特別是保護稚齡兒童因感冒導致高燒不退超越39° C容易引至病變死亡或智力受損傷害，本藥物物質可以立即退燒藥到病除并在肺部快速揮發不留痕。
- 肺結核是同屬肺部細菌性感染的一種，本藥物亦是唯一的特效藥。
- 本藥物物質對煙肺及老年人肺塵病中的積垢產生強烈的氧化作用而分解，本藥物特效適用如此的清洗作用。

PFCO-1 用藥注意事項

本藥物純由美國3M公司全氟的 PF-5080 電子液體混合臭氧配製而成，該液體被保證對眼睛和皮膚無刺激以及在實踐上口服亦無毒，3M公司進一步保證只有很低的過敏及慢性吸入毒性，臭氧在該液體中亦被保證不被降解。

由於臭氧是以游離狀不起化合作用存在於高分子溶液中，因此并不改變毒性特質；但由於臭氧的高度不穩定性，應用中的標稱濃度將會逐步下降，數值ppm又代表著殺菌力的高低，然而PFCO-1又有優良的揮發特性特別是在體溫下，也就是說必須調整O3的用藥濃度，在揮發期就必須一次過殺滅肺腔中的病菌，此點請臨床醫生謹記。

儘管本藥物相對的標稱濃度的氧氣可以達到15-30ppm或以上，PFCO製藥機可以調節含氧量達至超越藥揮發期間肺部呼吸量，儘管如此，仍然要建議單邊肺葉輪流臨床應用，另一肺葉則依然深度供氧以確保絕安全。

以10ppm或者更高的臭氧標稱濃度藥物液體對皮膚做過敏反應及揮發性的測試是我們的建議，液體的揮發性必須是酒精的3倍以上。擁有PFCO製藥機的診所及醫院很快就有更豐富的臨床經驗。

本藥物或物質實屬首創在醫學史上的“肺腔口腹液”，有其不方便使用的地方，因此不向市民公開發售，只供應給有專利受權的註冊醫生、診所或醫院行駛處方權施藥。

PFCO-Pharmacy-Machines

Standard Model: PFCO-PMA

Introduction

These unusual PFCO pharmacy machines are ideal for laboratory, hospital and clinic to compound a specific remedy for infectious lung disease. The specific remedy was to fixed dissolve some Ozone which pharmaceutical name shall be to denominate for PFCO-1, but it only suitable for clinical to put in use immediately or short-term store; another products for dissolve fixed some Oxygen to have other purpose of lung disease, the pharmaceutical name shall be to denominate for PFCO-2, it could be to store in a long-term.

These unusual PFCO pharmacy machines are consumption Fully-fluorinated liquid and the bottled Oxygen of purity over 99.5%.

The PFCO were specially for treating high fever from the SARS, bird flu and flu of any type including the phthisis, which advance at the same time has good effects on tidying up the lungs of smoker and lung-dust ill of aged people.

The invention of PFCO to put in used that was absolute to rewrite the history of medical treatment of Chinese and Western, so the PFCO medicine and the machine of pharmacy it will be about to obtain application extensively.

The machine of PFCO in accordance with the invent name that the "Surface Treatment of SARS-Infected Lungs" of the patent right of the HK patent number HK1060833 to supervise the manufacture and design, the patent right and copyright was possess simultaneously, so it must be strictly forbid to copy!

The patent application number of PCT was PCT/SG03/00145, the patent of every country in

PFCO-PMA



application; inventor is looking for the agent of the pharmacy machine or the PFCO medicine in every county.

Characteristics

- The standard model is PFCO-PMA which in used a set of ATI A15/64 dissolved ozone monitor, the measurement range it was enough for the pharmacy of PFCO-1 in general;
- The model of PFCO-PMB added one set of dissolved Oxygen monitor that measurement range between in 0-60ppm for pharmacy the PFCO-2 or to show the capacity of dissolved Oxygen of PFCO-1;
- The PFCO pharmacy machines was to pick an Ozone generator of water-cool type, the oxygen purity must to outstrip 99.5%;
- The PFCO pharmacy machines was made by stainless steel including the airtight-ness jar and it was inbuilt a filter in here;
- The standard airtight-ness jar to distinguish of three types which were 5, 10, 20 kilogram PFC which were 5, 10, 20 kilogram PFC capacity, to have something custom-made by order to specify;
- The PFCO pharmacy machines was to picked oil-less, non lubricated diaphragm liquid pump and control by a three digital timer for measure bottling or input the liquid for the lung transfusion bottle;
- The PFCO pharmacy machines was to pick the mix pump it could to prevent oxidation;
- The large-scale pharmacy machine include the automatic bottling system must by special quotation at some other time;
- Volume: 450 x 710 x 1360 mm (5Kgs)
- Pharmacy efficiency: 30-60 Min/ 5Kgs, it looks as if the standard of filter and consistency.
- Min. Pharmacy quantity: 1 kilogram
- Weight: 29 kilogram
- Overall Power: 146 watt / 220v

Equipment Introduction

1. A15/64 Dissolved Ozone Monitor:
 - a. Display: 16-character alphanumeric liquid crystal display with backlight.
 - b. Measurement Range: Programmable 0-20.00 PPM standard or 0-2.00.
 - c. Sensitivity: 0.001 PPM above 0.005 PPM
 - d. Repeatability: ± 0.01 PPM
 - e. Linearity: 0.5%
 - f. Response Time: 90% in <60 seconds
 - g. Output Range: Programmable for any range from 0-1 PPM to 0-20 PPM.
 - h. Sensor Temperature Compensation: Automatic -2°C to $+52^{\circ}\text{C}$.
 - i. Sensor: Polarographic membraned sensor.
 - j. Sensor Materials: Noryl and stainless steel.
 2. Digital Timer: 0-999 second.
 3. Magnetic Drive Mix Pump:
 - a. Motor: 6 W / 220 VAC / 50 Hz
 - b. Speed: 2,800 rpm.
 4. Diaphragm Liquid Pump:
 - a. Free flow: 400 ml/min
 - b. Max. Power consumption: 5 W
 - c. Max. Suction height/vacuum: 6.0m WC
 - d. Max. Pressure intermit-tend: 15m WC
 - e. Max. Pressure continuous: 10 m WC
 5. Ozone generators:
 - a. Max. to yield up: 3g / h
 - b. Power: 80 watt / 220v AC
 6. One set of Cooling radiator:
 - a. Capacity: 400 x 90 x 250 mm
 - b. A submersible pump or pressure boost: 50 watt / 220vAC
 7. Customer have authority to choose to arrange for one set of destruct chamber for deal with the overflow for mix or discharge outdoor:
 - a. Power: 150 watt / 220v AC;
 - b. Catalyst Mixture: MnO₂/CuO;
 - c. Construction: T316 Stainless Steel;
 - d. The specifics after in order.
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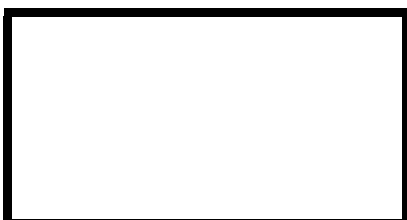
The PFCO is an up-to-date medicine of an invent patent, but, the Ozone can not be stored in the medicine to offer for sale, so the clinic and hospital who they must to buy the PFCO-1 machine and the patent to be authorized after that right away to compound and right away to use, the effect of medication far better than the present one by hundredfold which medicines of lung germs infect, for instance, As there is a need to define air as an interface, so SARS infection include any type of flu which is alike property of the ulcer of superficiality and bacterial infection, this is a new medical definition and as well as the basis of our patent invention and the basis for your belief in our patent too. It also that proven that the effect of medication of any antibiotics or vaccine was inevitable finite for bacterial infection of lung illness of any type flu, up to the present, no anyone doctor or specialist who could to negate this diagnosis theory of medical science! That was to include in before long time, a SARS medicine guides still to point those steroids, Ribavirin of antibiotics that make public of the Hong Kong Hospital Authority, obvious, the error in diagnosis was unlucky for residents of HK city! The requisition for patent negotiations it was still in proceed.

Therefore, the PFCO-1 was the only chosen medicine for curing SARS, this medicine machine can be used to control the Ozone concentration easily, the clinical concentration form it could be to consult "The effect of medication and ingredients of PFCO-1", the misgivings of "burn lung-cell" it may be solved by the hide-test, in addition to this, the clinical does not have any side effect!

At present, the PFC liquid and an oxygen atom is not classified by any country as a controlled medicament matter. Our PFCO-Pharmacy-Machine have provides PFCO-1 and PFCO-2 allows certified medical practitioners to prescribe medicine for lung infections caused by bacteria. For example, according to Hong Kong's section 28 of Pharmacy and Poisons Ordinance, all registered practitioners prescribe and use this type of medicine could be without having to register with the medical and drug regulatory department. Furthermore, those unauthorized hospitals and clinics will not dare to use this practice openly. This is therefore beneficial to the PFCO invention and its patent as it gives them more protection. However, as the usage of this medicine may differ among countries, it is necessary that the retailers of different countries to be aware of this.

These designs according to a patent authorize and copyright to possess simultaneously, so which was strictly forbid to counterfeit!

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PFCO—制藥機

標準型號： PFCO-PMA

簡介

本具獨特系統的 PFCO 機器完美地為實驗室、診所及醫院提供配製肺部感染疾病的特效藥，該溶解若干含量臭氧的特效藥命名為 PFCO-1，只宜即配即用或短時間的貯存；另一產品為溶解含量氧氣的特效藥命名為 PFCO-2 則可以貯存另供其他的肺部疾病的用途。

本 PFCO 制藥機器消耗液態的全氟化合物及 99.5% 以上的瓶裝純氧。

PFCO-1 對醫治肺部的非典型細感染、禽流感等等流行性感冒引起的高燒包括肺結核有特效，並進一步對吸煙者及老年人的肺塵病肺部清理亦有良好效果。

PFCO-1 的發明應用完全改寫並代替中西方醫學有史以來肺部感染疾病的醫療史，本藥物及制藥機將會得到廣泛的應用。

本 PFCO 制藥機為發明名稱為“肺臟非典型病菌感染的表面處理”香港專利號 HK-1060833 發明人授權而設計監製，專利權及版權同時擁有，嚴禁仿製！

PCT 國際專利申請號為：

PFCO-PMA



PCT/SG03/00145，各國專利亦在申請中，發明人尋求各國本制藥機代理及藥物代理。

基本特性

- 標準型號 PFCO-PMA 採用美國著名的 ATI A15/64 濃解臭氧測試儀，其測量範圍一般地足夠 PFCO-1 藥物實際應用的生產；
- PFCO-PMA 增加一部 0-60ppm 的濃解氧測試儀兼顧生產 PFCO-2 或顯示 PFCO-1 的含氧量；
- 本制藥機採用 CHYS 水冷管式的臭氧發生器，純度 99.5% 以上的氧氣由瓶裝氧氣供應；
- 本制藥車、密封制藥罐由全不銹鋼製成，制藥罐內置篩檢程式；
- 標準制藥罐分 5、10、20Kgs PFC 容

積三種，由顧客的訂單指定；

- 本制藥機採用無潤滑油的液體隔膜計量泵由三數位字計時器控制計量裝瓶或直接輸入到肺部的輸液瓶；
- 本制藥機採用防止氧化膠製成的混合泵；
- 大型制藥機包括自動裝瓶系統另行特約報價。
- 體積： 450 x 710 x 1360 mm (5Kgs)
- 配製效率： 30-60 Min/ 5Kgs, 似乎過濾及濃度標準。
- 最低制藥量： 1 公斤
- 重量： 29 kilogram
- 總功率： 146 watt / 220v AC

配備部件簡介

1. A15/64溶解臭氧監控器：
 - a. 顯示板：16-數位液晶顯示；
 - b. 測量範圍：可編程式標準的 0-20.00 PPM 或 0-2.00.
 - c. 敏感性：0.001 < 0.005 PPM
 - d. 可讀性：±0.01 PPM
 - e. 直線性：0.5%
 - f. 反應時間：90% < 60 秒
 - g. 輸出範圍：可編程式的 0-1 PPM 及 0-20 PPM.
 - h. 感應器溫度補償：-2°C-+52°C 自動
 - i. 感應器：電極的薄膜感應
 - j. 感應器物質：Noryl 及不銹鋼
2. 數位式計時器：0-999 秒
3. 電磁式混和泵：
 - a. 馬達：6 W / 220 VAC / 50 Hz
 - b. 速度：2,800 rpm.
4. 隔膜液體系：
 - a. 流量：400 ml/分鐘
 - b. 最大功率：5 W
 - c. 最大抽吸高度：6.0m
 - d. 最大中斷壓力：15m
 - e. 最大連續壓力：10 m WC
5. 臭氧產生器：
 - a. 最大產能：3g / 小時
 - b. 耗電：80 w / 220v AC
6. 冷卻水箱一個：
 - a. 容積：400 x 90 x 250 mm
 - b. 潛水泵/增壓泵：50 watt/220vAC
7. 顧客有權選擇安置一個破壞室去處理混合時臭氧的溢出或排放室外：
 - a. 功率：150 watt / 220v AC
 - b. 催化劑混合型：MnO₂/CuO
 - c. 構造材質：T316不銹鋼
 - d. 詳情另行說明在訂單後.

PFCO 是一種全新的專利發明的藥物，但由於臭氧的活躍特性制約製成藥物出售，所以診所及醫院只能購買專利受權然後即配即用，其功效何止千倍於當今醫學界現有的肺部細菌性感染藥物，因為，以空氣為介面定義，非典病菌感染(SARS)包括任何一種流感或肺結核都同屬表面性、細菌感染性潰瘍，這是一個創新的醫學定義也是專利發明及您信任我們的基礎。也由此可知，抗生素無用武之地，疫苗的防癘也就效果極之有限！至今，沒有一堆醫生或專家可以否定這一創新的醫學診斷理論！包括不久之前發佈 SARS 藥物指引仍眷戀著類固醇、利巴偉林等抗生素的香港醫管局，這顯然是市民的不幸歷史的笑話！醫管局顯然正在改正他們的誤導，專利的前期談判要求仍在處理中！

所以 PFCO 是目前的 SARS 藥物的唯一選擇，我們的 PFCO 制藥機可以輕易地控制在臨床應用中的臭氧濃度，臨床濃度表參考另見“PFCO-1 藥物成份及藥力簡介”，“灼傷”肺部細胞的擔憂可以皮試解決，除此之外，並無任何副作用之憂！

目前，PFC液體及單氧原子在目前並不屬各國藥劑管制中的藥劑物質，我們的藥機提供 PFCO-1及PFCO-2 供註冊醫生配製肺部細菌性感染藥物，例如根據香港的藥劑及毒藥條例28條，香港的註冊醫生有處方權自行配製及使用而豁免此等藥物須向藥劑及毒藥管理局註冊的要求，另外，沒有專利授權的醫院或診所不敢公開如此的醫療法，這對PFCO專利發明的知識產權將有更好的保障，但各國的藥劑法將有所差異，因此，請國外的銷售商對此留意！

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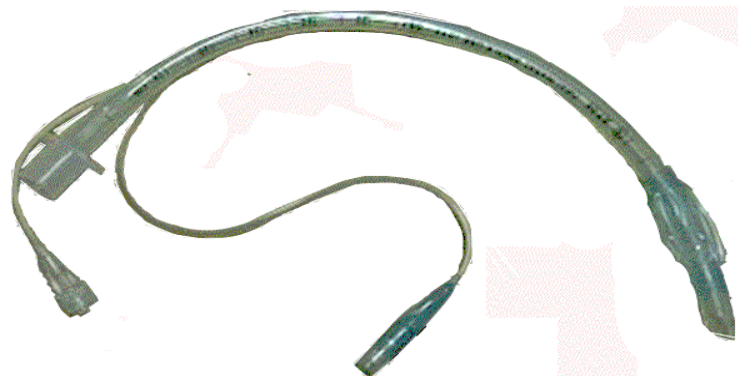
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Tracheal Tube For Single Use

<p style="text-align: center;"><u>Propose Using !</u></p> <p style="text-align: center;">To operate in coordination using for the Clinical Three Channel Valve</p> <p>Caution and instruction manual:</p> <ol style="list-style-type: none"> 1. Store in clean, dry condition away from light and avoid freezing and excessive heat; 2. Seat 15mm connector firmly into tracheal tube prior to use; 3. Avoid contact with laser beams or electrosurgery electrodes; 4. To tear open the parcel bagging and take out the Tracheal Tube to join the contact; 5. Using an injector to face the gasbag to fill an little gas to check if puncture of the gasbag; 6. To pump out gas of the gasbag; 7. Start the normal operation to intubate procedure; 	<p style="text-align: center;">HKD \$30.00 (single tube type)</p>  <p style="text-align: center;">Children type: 2.5#, 3.5#, 4.5#, 5.5#, 6#; Adult type: 6.5#, 7.5#, 8#, 8.5#, 9#, 9.5#, 10#;</p> <p style="text-align: center;">HKD \$50.00 (repeatedly use) Clinical Three Channel Valve</p> 
	<p style="text-align: center;">Common Tracheal Tube Package For Single Use</p>
<p style="text-align: center;">Even tube Tracheal Tube for Single use high-priced ! Standards Diameter</p> <p style="text-align: center;">Children type: 2.5#, 3.5#, 4.5#, 5.5#, 6#; Adult type: 6.5#, 7.5#, 8#, 8.5#, 9#, 9.5#, 10#;</p>	

The improve typed of latest issue it was proposed for using.



PFCO infusion support

Air Valves inside

In depth the Bronchus



Performance Fluid

PF-5080

Introduction

3M™ Performance Fluid PF-5080 is a clear, colorless, fully-fluorinated liquid (perfluorocarbon). Like other 3M performance fluids, PF-5080 fluid is chemically and thermally stable, practically non-toxic, and nonflammable. High dielectric strength and excellent materials compatibility make PF-5080 fluid an excellent choice in a wide range of applications, from lubricant deposition and process solvent applications to heat transfer.

Typical Physical Properties

Not for specification purposes

All values determined at 25°C unless otherwise specified

Properties	PF-5080
Appearance	Clear, colorless
Average Molecular Weight	438
Boiling Point, 1 atm	101°C
Pour Point	-30°C
Critical Temperature	502 °C
Critical Pressure	1.66 x 10 ⁶ Pa
Vapor Pressure	3.87 x 10 ³ Pa
Heat of Vaporization, (at normal boiling point)	92 J/g
Liquid Density	1.77 g/ml
Viscosity, Kinematic	0.79 centipoise
Liquid Specific Heat	1.05 J g ⁻¹ °C ⁻¹
Liquid Thermal Conductivity	0.064 W m ⁻¹ °C ⁻¹
Coefficient of Expansion	0.0014 °C ⁻¹
Surface Tension	15 dynes/cm
Refractive Index	1.270
Water Solubility	11 ppm
Solubility in Water	<5 ppm

Electrical Properties

Not for specification purposes

All values determined at 25°C unless otherwise specified

Properties	
Dielectric Strength	41 kV, 0.1" gap
Dielectric Constant	1.85 1MHZ
Volume Resistivity	8.4 x 10 ¹⁵ ohm-cm

3M™ Performance Fluid PF-5080 Heat Transfer Properties

The following formulas can be used to calculate the specific heat, thermal conductivity, density and vapor pressure of 3M™ Performance Fluid PF-5080 at various temperatures.

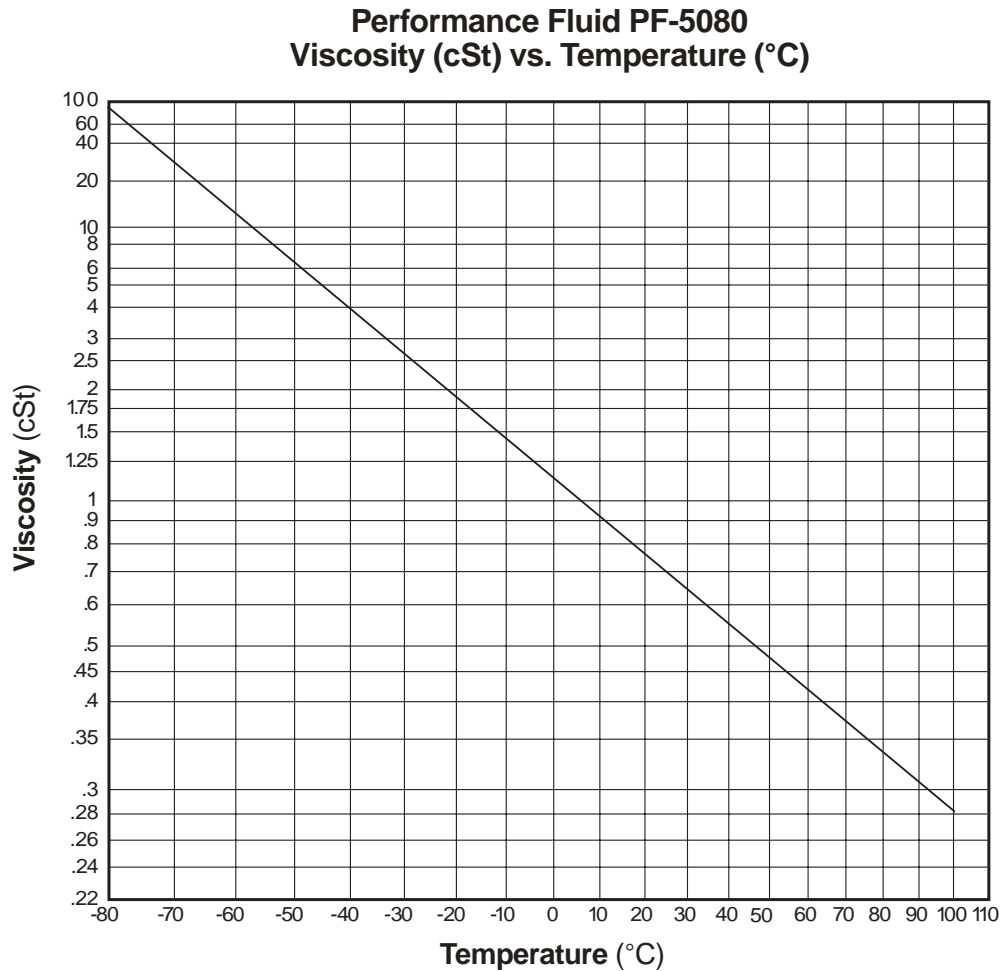
$$\text{Specific Heat (J kg}^{-1} \text{ }^{\circ}\text{C}^{-1}) = 1014 + 1.554 (T, \text{ }^{\circ}\text{C})$$

$$\text{Thermal Conductivity (W m}^{-1} \text{ }^{\circ}\text{C}^{-1}) = 0.065 - 0.00008 (T, \text{ }^{\circ}\text{C})$$

$$\text{Density (kg/m}^3\text{)} = 1838 - 2.45 (T, \text{ }^{\circ}\text{C})$$

$$\text{Log}_{10}(\text{Vapor Pressure (Pa)}) = 9.707 - (1824/(T, \text{ K}))$$

The following graph can be used to determine the viscosity of performance fluid PF-5080 over the indicated temperature range.



3M™ Performance Fluid PF-5080 Materials Compatibility

3M™ Performance Fluid PF-5080 is compatible with most metals, plastics and elastomers.

Toxicity Profile

3M fluid PF-5080 is non-irritating to the eyes and skin, and is practically non-toxic orally. The product also demonstrates very low acute and sub-chronic inhalation toxicity. A Material Safety Data Sheet is available upon request.

Safety and Handling

PF-5080 fluid is nonflammable, and is highly resistant to thermal breakdown and hydrolysis in storage and during use. Additional safety and handling information is provided in the Material Safety Data Sheet which is available upon request.

Environmental Properties

PF-5080 fluid has zero ozone depletion potential. The material is exempt from the U.S. EPA and most state definitions of a volatile organic compound (VOC) and does not contribute to ground-level smog formation.

3M fluid PF-5080, a perfluorocarbon (PFC), has a high global warming potential and a long atmospheric lifetime. As such, it should be carefully managed so as to minimize emissions and provide the necessary economic performance.

3M recommends that users of PF-5080 fluid further limit emissions by employing good conservation practices, and by implementing recovery, recycling and/or proper disposal procedures. 3M offers a program for used fluid return in the U.S. Additional handling and use information is provided in the Material Safety Data Sheet.

Environmental Policy

3M will recognize and exercise its responsibility to:

- prevent pollution at the source wherever and whenever possible
- develop products that will have a minimal effect on the environment
- conserve natural resources through the use of reclamation and other appropriate methods
- assure that its facilities and products meet and sustain the regulations of all Federal, State and local environmental agencies
- assist, wherever possible, governmental agencies and other official organizations engaged in environmental activities

3M™ Performance Fluid PF-5080 Used Fluid Return Program

3M offers a program for free pickup and return of used 3M Specialty Materials in the U.S. through Safety-Kleen Corporation. A pre-negotiated handling agreement between users and this service provider offers users broad protection against future liability for used 3M product. The fluid return program is covered by independent third-party financial and environmental audits of treatment, storage and disposal facilities. Necessary documentation is provided. A minimum of 30 gallons of used 3M Specialty Materials is required for participation in this free program.

Safety-Kleen Corporation has a network of 156 branch service centers in the U.S. This large fleet will provide timely, economical fluid disposal service. For additional information on the 3M Used Fluid Return Program, contact Safety-Kleen Corporation at this toll-free line: 1.888.932.2731.

Resources

3M™ Performance Fluid PF-5080 customers are supported by global sales, technical and customer sales resources, with fully staffed technical service laboratories in the U.S., Europe, Japan, Latin America and Southeast Asia. Users benefit from 3M's broad technology base and continuing attention to product development, performance, safety and environmental issues.

For additional information on PF-5080 fluid, contact your local 3M office.

www.3m.com/electronics/chemicals

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Canada

3M Canada Company
800 364 3577

China

3M China Ltd.
86 21 6275 3535

Europe

3M Belgium N.V.
32 3 250 7521

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Sumitomo 3M Limited
813 3709 8250

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3M Korea Limited
82 2 3771 4114

Malaysia

3M Malaysia Sdn. Berhad
60 3 706 2888

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3M Philippines, Inc.
63 2 813 3781

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65 454 8611

Taiwan

3M Taiwan Limited
886 2 2704 9011

Other Areas

651 736 7123 (U.S.)

Important Notice to Purchaser: The information in this publication is based on tests that we believe are reliable. Your results may vary due to differences in test types and conditions. You must evaluate and determine whether the product is suitable for your intended application. Since conditions of product use are outside of our control and vary widely, the following is made in lieu of all express or implied warranties (including the implied warranties of merchantability and fitness for a particular purpose): Except where prohibited by law, 3M's only obligation and your only remedy, is replacement or, at 3M's option, refund of the original purchase price of product that is shown to have been defective when you received it. In no case will 3M be liable for any direct, indirect, special, incidental, or consequential damages (including, without limitation, lost profits, goodwill, and business opportunity) based on breach of warranty, condition or contract, negligence, strict tort, or any other legal or equitable theory.



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